ROCKBUSTER STEALTH

DATA DICTIONARY
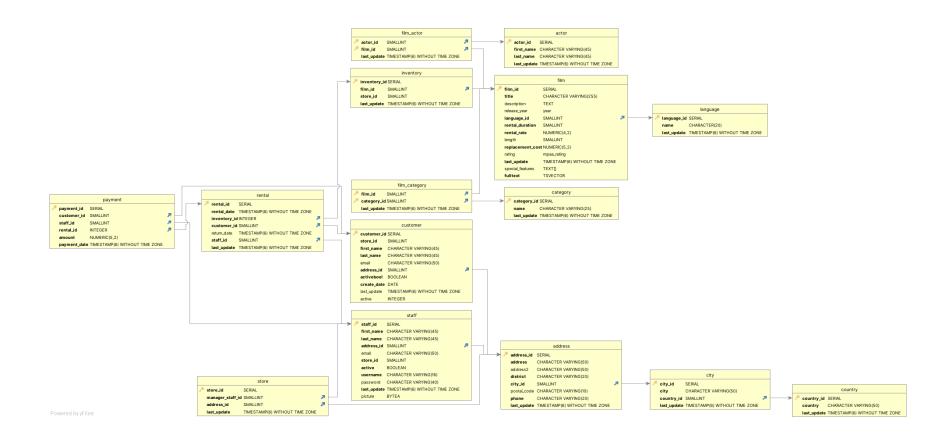
Table of Contents

Rockbuster Stealth LLC

Rockbuster Stealth LLC is a movie rental company that has stores all over the world. The current database has information on movie rentals that can be analyzed to provide a plan for a future online video service.

Entity Relationship Diagram

film_actor

actor_id	SMALLINT
film_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

actor

actor_id	SERIAL
first_name	CHARACTER VARYING(45)
last_name	CHARACTER VARYING(45)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

inventory

inventory_id	SERIAL
film_id	SMALLINT
store_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

film

film_id	SERIAL
title	CHARACTER VARYING(255)
description	TEXT
release_year	year
language_id	SMALLINT
rental_duration	SMALLINT
rental_rate	NUMERIC(4,2)
length	SMALLINT
replacement_cost	NUMERIC(5,2)
rating	mpaa_rating
last_update	TIMESTAMP(6) WITHOUT TIME ZONE
special_features	TEXT[]
fulltext	TSVECTOR

language

language_id	SERIAL
name	CHARACTER(20)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

payment

payment_id	SERIAL
customer_id	SMALLINT
staff_id	SMALLINT
rental_id	INTEGER
amount	NUMERIC(5,2)
payment_date	TIMESTAMP(6) WITHOUT TIME ZONE

rental

rental_id	SERIAL
rental_date	TIMESTAMP(6) WITHOUT TIME ZONE
inventory_id	INTEGER
customer_id	SMALLINT
return_date	TIMESTAMP(6) WITHOUT TIME ZONE
staff_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

film_category

film_id	SMALLINT
category_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

category

category_id	SERIAL
name	CHARACTER VARYING(25)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

customer

customer_id	SERIAL
store_id	SMALLINT
first_name	CHARACTER VARYING(45)
last_name	CHARACTER VARYING(45)
email	CHARACTER VARYING(50)
address_id	SMALLINT
activebool	BOOLEAN
create_date	DATE
last_update	TIMESTAMP(6) WITHOUT TIME ZONE
active	INTEGER

staff

staff_id	SERIAL
first_name	CHARACTER VARYING(45)
last_name	CHARACTER VARYING(45)
address_id	SMALLINT
email	CHARACTER VARYING(50)
store_id	SMALLINT
active	BOOLEAN
username	CHARACTER VARYING(16)
password	CHARACTER VARYING(40)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE
picture	BYTEA

address

address_id	SERIAL
address	CHARACTER VARYING(50)
address2	CHARACTER VARYING(50)
district	CHARACTER VARYING(20)
city_id	SMALLINT
postal_code	CHARACTER VARYING(10)
phone	CHARACTER VARYING(20)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

store

store_id	SERIAL
manager_staff_id	SMALLINT
address_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

city

city_id	SERIAL
city	CHARACTER VARYING(50)
country_id	SMALLINT
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

country

country_id	SERIAL
country	CHARACTER VARYING(50)
last_update	TIMESTAMP(6) WITHOUT TIME ZONE

Fact Tables

Payment Table

Columns:

Column	Data Type	Description
payment_id	serial	ID of payment
customer_id	small int	ID of customer
staff_id	small int	ID of staff
rental_id	integer	ID of rental
amount	numeric (5,2)	Cost of payment
payment_date	timestamp (6) without time zone	Date of payment

Links To:

Table	Join	Description
Customer	Payment.customer_id = Customer.customer_id	Foreign Key reference to customer table
Staff	Payment.staff_id = Staff.staff_id	Foreign Key reference to staff table
Rental	Payment.rental_id = Rental.rental_id	Foreign Key reference to rental table

Links From:

The Payment Table does not link from any other table.

Unique Keys:

Column	Key Type	Description
payment_id	Primary Key	Unique id for every payment
customer_id	Foreign Key	Primary Key for Customer Table
staff_id	Foreign Key	Primary Key for Staff Table
rental_id	Foreign Key	Primary Key for Rental Table

Rental Table

Columns:

Column	Data Type	Description
rental_id	serial	ID of rental
rental_date	timestamp (6) without time zone	Date of rental
inventory_id	integer	ID of inventory
customer_id	small int	ID of customer
return_date	timestamp (6) without time zone	Date of movie return
staff_id	small int	ID of staff
last_update	timestamp (6) without time zone	Date when table was last updated

Links To:

Table	Join	Description
Inventory	Rental.inventory_id = Inventory.inventory_id	Foreign Key reference to inventory table
Customer	Rental.customer_id = Customer.customer_id	Foreign Key reference to customer table
Staff	Rental.staff_id = Staff.staff_id	Foreign Key reference to staff table

Links From:

Table	Join	Description
Payment	Rental.rental_id = Payment.rental_id	Foreign Key reference to payment table

Unique Keys:

Column	Key Type	Description
rental_id	Primary Key	Unique id for every rental
inventory_id	Foreign Key	Primary Key for Inventory Table
customer_id	Foreign Key	Primary Key for Customer Table
staff_id	Foreign Key	Primary Key for Staff Table

Dimension Tables

Actor Table

Columns:

Columns	Data Type	Description
actor_id	serial	ID of actor
first_name	character varying (45)	First name of actor
last_name	character varying (45)	Last name of actor
last_update	timestamp (6) without time zone	Date when table was last updated

Links To:

The Actor Table does not link to any other table.

Links From:

Table	Join	Description
Film_Actor	Actor.actor_id = Film_Actor.actor_id	Foreign Key reference to Film_Actor Table

Unique Keys:

Column	Key Type	Description
actor_id	Primary Key	Unique id for every actor

Address Table:

Columns:

Columns	Data Type	Description
address_id	serial	ID of address
address	character varying (50)	First line of address
address2	character varying (50)	Second line of address
district	character varying (20)	District of address
city_id	small int	ID of city
postal_code	character varying (10)	Postal code of address
phone	character varying (20)	Phone number of address
last_update	timestamp (6) without time zone	Date when table was last updated

Links To:

Table	Join	Description
City	Address.city_id = City.city_id	Foreign Key reference to City Table

Links From:

Table	Join	Description
Customer	Address.address_id = Customer.address_id	Foreign Key reference to Customer Table
Staff	Address.address_id = Staff.address_id	Foreign Key reference to Staff Table
Store	Address.address_id = Store.address_id	Foreign Key reference to Store Table

Unique Keys:

Column	Key Type	Description
address_id	Primary Key	Unique id for every address
city_id	Foreign Key	Primary Key for City Table

Category Table:

Columns:

Columns	Data Type	Description
category_id	serial	ID of category
name	character varying (25)	Name of category
last_update	timestamp (6) without time zone	Date when table was last updated

Links To:

The Category Table does not link to any other table.

Links From:

Table	Join	Description
Film_Category	Category.category_id = Film_category.category_id	Foreign Key reference to Film_Category Table

Unique Keys:

Column	Key Type	Description
category_id	Primary Key	Unique id for every category

City Table:

Columns:

City Table		
Columns	**Data Type**	**Description**
city_id	serial	ID of city
city	character varying (50)	Name of city
country_id	small int	ID of country
last_update	timestamp (6) without time zone	Date when table was last updated

Links To:

Table	Join	Description
Country	City.country_id = Country.country_id	Foreign Key reference to Country Table

Links From:

Table	Join	Description
Address	City.city_id = Address.city_id	Foreign Key reference to Address Table

Unique Keys:

Column	Key Type	Description
city_id	Primary Key	Unique id for every city
country_id	Foreign Key	Primary Key for Country Table

Country Table

Columns:

Columns	Data Type	Description
country_id	serial	ID of country
country	character varying (50)	Name of country
last_update	timestamp (6) without time zone	Date when table was last updated

Links To:

The Country Table does not link to any other table.

Links From:

Table	Join	Description
City	Country.country_id = City.country_id	Foreign Key reference to City Table

Unique Keys:

Column	Key Type	Description
country_id	Primary Key	Unique id for every country

Customer Table

Columns:

Columns	Data Type	Description
customer_id	serial	ID of film
store_id	small int	ID of film category
first_name	character varying (45)	First name of customer
last_name	character varying (45)	Last name of customer
email	character varying (50)	Email of customer
address_id	small int	ID of address
activebool	Boolean	Whether or not the customer is active (true/false)
create_date	date	Date when customer was first registered
last_update	timestamp (6) without time zone	Date when table was last updated
active	integer	Active integer (1 or 0)

Links To:

Table	Join	Description
Address	Customer.address_id = Address.address_id	Foreign Key reference to Address Table

Links From:

Table	Join	Description
Payment	Customer.customer_id = Payment.customer_id	Foreign Key reference to Payment Table
Rental	Customer.customer_id = Rental.customer_id	Foreign Key reference to Rental Table

Unique Keys:

Column	Key Type	Description
customer_id	Primary Key	Unique id for every customer
address_id	Foreign Key	Primary Key for Address Table

Film Table

Columns:

Columns	Data Type	Description
film_id	serial	ID of film
title	character varying (255)	Title of film
description	text	Description of film
release_year	year	Year film was released
language_id	small int	ID of language
rental_duration	small int	Duration of rental
rental_rate	numeric (4,2)	Cost to rent film
length	small int	Length of film
replacement_cost	numeric (5,2)	Cost to replace film
rating	mpaa_rating	MPAA rating of film
last_update	timestamp (6) without time zone	Date when table was last updated
special_features	text []	Special features of film
fulltext	tsvector	Film index: contains key words that are within the film

Links To:

Table	Join	Description
Language	Film.language_id = Language.language_id	Foreign Key reference to Language Table

Links From:

Table	Join	Description
Film_Actor	Film.film_id = Film_Actor.film_id	Foreign Key reference to Film Actor Table
Inventory	Film.film_id = Inventory.film_id	Foreign Key reference to Inventory Table
Film_Category	Film.film_id = Film_Category.film_id	Foreign Key reference to Film Category Table

Unique Keys:

Column	Key Type	Description
film_id	Primary Key	Unique id for every film
language_id	Foreign Key	Primary Key for Language Table

Film_Actor Table

Columns:

Columns	Data Type	Description
actor_id	small int	ID of actor
film_id	small int	ID of film
last_update	timestamp (6) without time zone	Date when table was last updated

Links To:

Table	Join	Description
Actor	Film_Actor.actor_id = Actor.actor_id	Foreign Key reference to Actor Table
Film	Film_Actor.film_id = Film.film_id	Foreign Key reference to Film Table

Links From:

The Film_Actor Table does not link from any other table.

Unique Keys:

Column	Key Type	Description
actor_id	Primary Key	Unique id for every film_actor
film_id	Foreign Key	Primary Key for Film Table

Film_Category Table

Columns:

Columns	Data Type	Description
film_id	small int	ID of film
category_id	small int	ID of film category
last_update	timestamp (6) without time zone	Date when table was last updated

Links To:

Table	Join	Description
Film	Film_Category.film_id = Film.film_id	Foreign Key reference to Film Table
Category	Film_Category.category_id = Category.category_id	Foreign Key reference to Category Table

Links From:

The Film_Category Table does not link from any other table.

Unique Keys:

Column	Key Type	Description
film_id	Primary Key	Unique id for every film_category
category_id	Foreign Key	Primary Key for Category Table

Inventory Table

Columns:

Columns	Data Type	Description
inventory_id	serial	ID of inventory item
film_id	small int	ID of film
store_id	small int	ID of store
last_update	timestamp (6) without time zone	Date when table was last updated

Links To:

Table	Join	Description
Film	Inventory.film_id = Film.film_id	Foreign Key reference to Film Table

Links From:

Table	Join	Description
Rental	Inventory.inventory_id = Rental.inventory_id	Foreign Key reference to Rental Table

Unique Keys:

Column	Key Type	Description
inventory_id	Primary Key	Unique id for every inventory
film_id	Foreign Key	Primary Key for Film Table

Language Table

Columns:

Columns	Data Type	Description
language_id	serial	ID of language
name	character (20)	Name of language
last_update	timestamp (6) without time zone	Date when table was last updated

Links To:

The Language Table does not link to any other table.

Links From:

Table	Join	Description
Film	Language.language_id = Film.language_id	Foreign Key reference to Film Table

Unique Keys:

Column	Key Type	Description
language_id	Primary Key	Unique id for every language

Staff Table

Columns:

Columns	Data Type	Description
staff_id	serial	ID of staff
first_name	character varying (45)	First name of staff
last_name	character varying (45)	Last name of staff
address_id	small int	ID of address
email	character varying (50)	Email of staff
store_id	small int	ID of store
active	Boolean	Whether or not the staff member is active (true/false)
username	character varying (16)	Username of staff member
password	character varying (40)	Password of staff member
last_update	timestamp (6) without time zone	Date when table was last updated
picture	Bytea	Picture of staff member

Links To:

Table	Join	Description
Address	Staff.address_id = Address.address_id	Foreign Key reference to Address Table

Links From:

Table	Join	Description
Rental	Staff.staff_id = Rental.staff_id	Foreign Key reference to Rental Table
Payment	Staff.staff_id = Payment.staff_id	Foreign Key reference to Payment Table
Store	Staff.staff_id = Store.staff_id	Foreign Key reference to Store Table

Unique Keys:

Column	Key Type	Description
staff_id	Primary Key	Unique id for every staff
address_id	Foreign Key	Primary Key for Address Table

Store Table

Columns:

Columns	Data Type	Description
store_id	serial	ID of store
manager_staff_id	small int	ID of staff manager
address_id	small int	ID of address
last_update	timestamp (6) without time zone	Date when table was last updated

Links To:

Table	Join	Description
Staff	Store.manager_staff_id = Staff.staff_id	Foreign Key reference to Staff Table
Address	Store.address_id = Address.address_id	Foreign Key reference to Address Table

Links From:

The Store Table does not link from any other table.

Unique Keys:

Column	Key Type	Description
store_id	Primary Key	Unique id for every store
staff_id	Foreign Key	Primary Key for Staff Table
address_id	Foreign Key	Primary Key for Address Table